

Product datasheet for SC117015

Profilin 1 (PFN1) (NM_005022) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Profilin 1 (PFN1) (NM_005022) Human Untagged Clone
Tag:	Tag Free
Symbol:	Profilin 1
Synonyms:	ALS18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117015 sequence for NM_005022 edited (data generated by NextGen Sequencing) ATGGCCGGGTGGAACGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACGCG GCCATCGTGGGCTACAAGGACTCGCCCTCCGTCTGGGCCCGCGTCCCGGGAAAACGTTCC GTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGACCGGTCAAGTTTTTAC GTGAATGGGCTGACACTTGGGGCCAGAAATGTTCCGGTATCCGGGACTCACTGCTGCAG GATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCCACCTTCAAT GTCCTGTACCAAGACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCAC GGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCCCACCTTCGGCGTTCCAGTAC TGA Clone variation with respect to NM_005022.2
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005022 unedited GCACGAGGGCGGTCCGGACGGCAGCGCGTGCCCGAGCTCTCCGCCTCCCCCGCCCGCC AGCCGAGGCAGCTCGAGCCAGTCCGCGGCCAGCAGCAGCGCCGAGAGCAGCCCCAGT AGCAGCGCCATGGCCGGGTGGAACGCCTACATCGACAACCTCATGGCGGACGGGACCTGT CAGGACCGGCCATCGTGGGCTACAAGGACTCGCCCTCCGTCTGGGCCCGCGTCCCGGG AAAACGTTTCGTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGACCGGTCA AGTTTTTACGTGAATGGGCTGACACTTGGGGCCAGAAATGTTCCGGTATCCGGGACTCA CTGCTGCAGGATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCC ACCTTCAATGTCACTGTACCAAGACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAA GGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCCCACCTTCGGCGT TCCAGTACTGACCTCGTCTGTCCCTTCCCCTTACCAGCTCCCCACAGCTTTGCACCCCT TTCCTCCCCATACACACAAACCAT
Restriction Sites:	NotI-NotI



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ACCN:	NM_005022
Insert Size:	950 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005022.2 , NP_005013.1
RefSeq Size:	847 bp
RefSeq ORF:	423 bp
Locus ID:	5216
UniProt ID:	P07737
Cytogenetics:	17p13.2
Domains:	PROF
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	This gene encodes a member of the profilin family of small actin-binding proteins. The encoded protein plays an important role in actin dynamics by regulating actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome, and the encoded protein may also play a role in Huntington disease. Multiple pseudogenes of this gene are located on chromosome 1. [provided by RefSeq, Jul 2012]